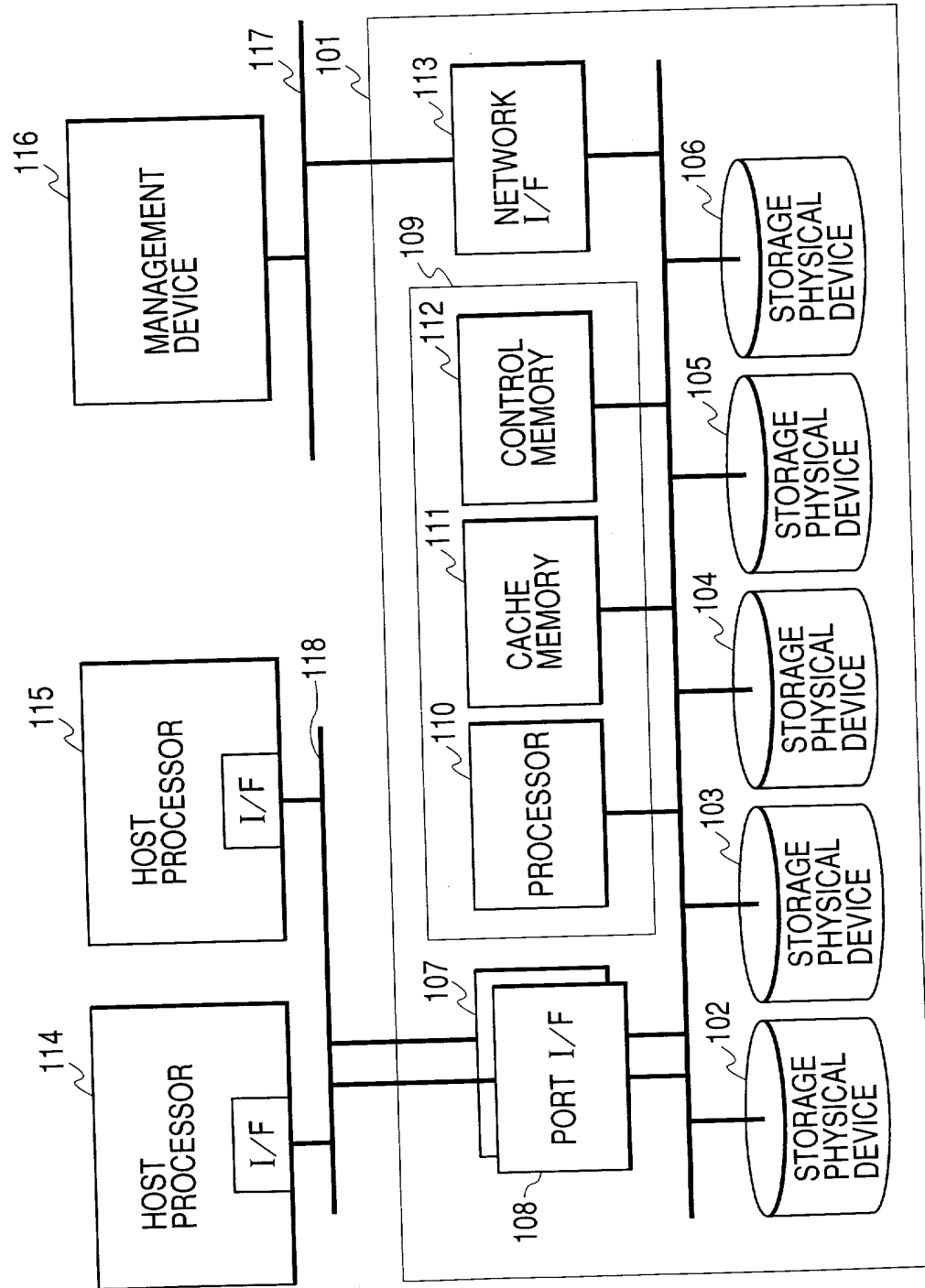


FIG. 1



Applicant: Masashi Yano, et al.

Title: Storage System

Atty Docket No. 16869N-045500

Sheet 2 of 8

2 / 8

FIG. 2

FILE ATTRIBUTE	CONTENTS	CONDITIONS
NAME OF EXECUTER	NAME OF EXECUTER ID OF ACCESS TO FILE	DESIGNATION, ID, AND ATTACHED GROUP NAME ID COINCIDE ?
HOLDER	FILE'S HOLDER NAME ID	DESIGNATION, ID, ATTACHED GROUP NAME ID COINCIDE ?
SIZE	SIZE OF FILE	SMALLER THAN, SMALLER THAN OR EQUAL TO, LARGER THAN OR EQUAL TO, OR EQUAL TO GIVEN VALUE
CREATION DATE	CREATION DATE OF FILE	NEWER THAN, NEWER THAN OR IDENTICAL TO, OLDER THAN, OLDER THAN OR IDENTICAL TO, OR IDENTICAL TO GIVEN TIME
RENEWAL DATE	FINAL RENEWAL DATE OF FILE	NEWER THAN, NEWER THAN OR IDENTICAL TO, OLDER THAN, OLDER THAN OR IDENTICAL TO, OR IDENTICAL TO GIVEN TIME
FINAL ACCESS DATE	DATE OF FINAL ACCESS TO FILE	NEWER THAN, NEWER THAN OR IDENTICAL TO, OLDER THAN, OLDER THAN OR IDENTICAL TO, OR IDENTICAL TO GIVEN TIME
NAME OF FILE EXTENSION / CREATED AP NAME	TYPE AND CREATION OF FILE / NAME OF USE APPLICATION	EXTENSIONS COINCIDE (WILD CARD DESIGNATABLE)
FREQUENCY OF ACCESS	NUMBER OF ACCESSES TO FILE WITHIN PREDETERMINED PERIOD	SMALLER THAN, SMALLER THAN OR EQUAL TO, LARGER THAN OR EQUAL TO, OR EQUAL TO GIVEN VALUE

Applicant: Masashi Yano, et al.

Title: Storage System

Atty Docket No. 16869N-045500

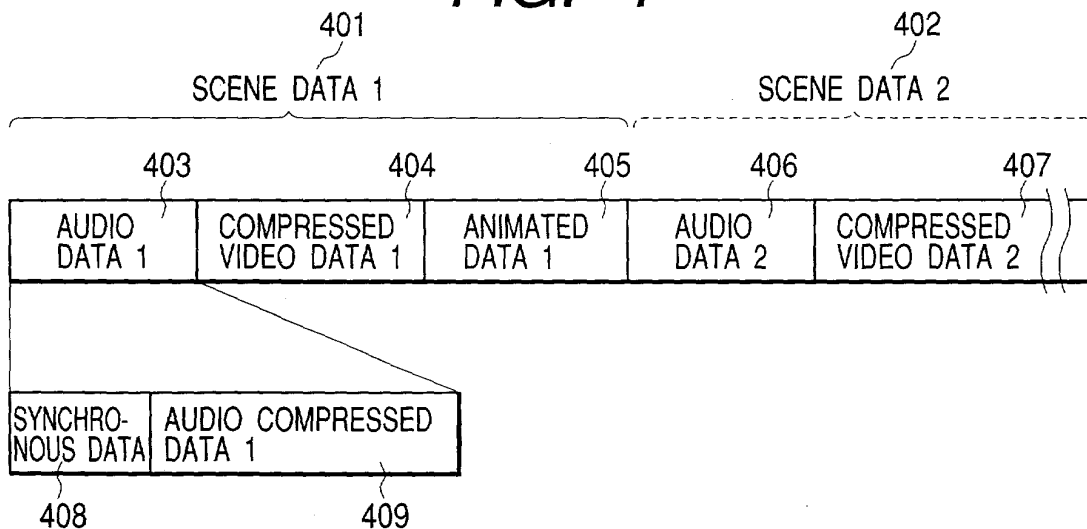
Sheet 3 of 8

3 / 8

FIG. 3

ITEM NUMBER	MEANING	PARAMETER
301-1	PLACE ALL FILES IN SPECIFIC PHYSICAL DEVICE	NAME OF PLACED STORAGE PHYSICAL DEVICE
302-2	SPECIFY HOW MANY BYTES FROM HEAD OF FILE SHOULD BE PLACED IN SPECIFIC PHYSICAL DEVICE	NAME OF PLACED STORAGE PHYSICAL DEVICE, NUMBER OF THRESHOLD BYTES
303-3	SPECIFY WHAT PERCENT FROM HEAD OF FILE SHOULD BE PLACED IN SPECIFIC PHYSICAL DEVICE	NAME OF PLACED STORAGE PHYSICAL DEVICE, THRESHOLD PERCENT VALUE
304-4	SPECIFY HOW MANY BYTES FROM END OF FILE SHOULD BE PLACED IN SPECIFIC PHYSICAL DEVICE	NAME OF PLACED STORAGE PHYSICAL DEVICE, NUMBER OF THRESHOLD BYTES
305-5	SPECIFY WHAT PERCENT FROM END OF FILE SHOULD BE PLACED IN SPECIFIC PHYSICAL DEVICE	NAME OF PLACED STORAGE PHYSICAL DEVICE, THRESHOLD PERCENT VALUE
306-6	SPECIFY WHETHER NEWLY-ADDED PORTION SHOULD BE PLACED IN SPECIFIC PHYSICAL DEVICE	NAME OF PLACED STORAGE PHYSICAL DEVICE

FIG. 4



```

<?xml version="1.0" encoding="Shift_JIS"?> ~501
<!DOCTYPE STORAGE STORED DATA [

    <!ELEMENT multimedia-data (file-head, obj-data*)> ~502                                503

    <!ELEMENT file-head (filename, file-ext, size, title?, creator?, bitrate?, time?)>
    <!ELEMENT filename (#PCDATA)> ~504
    <!ELEMENT file-ext (#PCDATA)> ~505
    <!ELEMENT size (#PCDATA)> ~506
    <!ELEMENT title (#PCDATA)> ~507
    <!ELEMENT creator (#PCDATA)> ~508
    <!ELEMENT bitrate (#PCDATA)> ~509
    <!ELEMENT time (#PCDATA)> ~510
                                511

    <!ELEMENT obj-data (obj-head, obj-body)*>
                                512
    <!ELEMENT obj-head (len, seq, time, dur?, obj-id, command?, bitrate?, encodetype?,
                                mediatype?, content-attribute?)>
    <!ELEMENT len (#PCDATA)> ~513
    <!ELEMENT seq (#PCDATA)> ~514
    <!ELEMENT time (#PCDATA)> ~515
    <!ELEMENT duration (#PCDATA)> ~516
    <!ELEMENT obj-id (#PCDATA)> ~517
    <!ELEMENT command (#PCDATA)> ~518
    <!ELEMENT bitrate (#PCDATA)> ~519
    <!ELEMENT encodetype (#PCDATA)> ~520
    <!ELEMENT mediatype (#PCDATA)> ~521
    <!ELEMENT content-attribute (#PCDATA)> ~522
    <!ELEMENT obj-body EMPTY>
    <!ATTLIST obj-body % media-object-attrs;> ~523
    <!ENTITY % media-object-attrs"
        begin-place CDATA #IMPLIED ~524
        end-place CDATA #IMPLIED ~525
"
>

```

**Applicant:** Masashi Yano, et al.

**Title:** Storage System

**Atty Docket No. 16869N-045500**

Sheet 5 of 8

5 / 8

**FIG. 6**

```

<?xml version="1.0" encoding="Shift_JIS"?>
<!DOCTYPE STORAGE STORED DATA SYSTEM "storedata.dtd"> ~601
<STORAGE STORED DATA> ~602
<multimedia-data>
<file-head>
  <filename> movie1.mpg</filename> ~603
  <file-ext> mpg</file-ext> ~604
  <size> 2,000,000,000</size> ~605
  <title> actionmovie</title> ~606
  <creator> John</creator> ~607
  <bitrate> 2000000</bitrate> ~608
  <time> 7200</time> ~609
</file-head>
<obj-data> ~610
  <obj-head> ~611
    <len> 900</len> ~612
    <seq> 1</seq> ~613
    <time> 0</time> ~614
    <dur> 32</dur> ~615
    <obj-id> 0</obj-id> ~616
    <command> create</create> ~617
    <bitrate> 1800000</bitrate> ~618
    <encodetype> ISO/IEC 14496-2</encodetype> ~619
    <mediatype> video</mediatype> ~620
    <content-attribute> promotion commercial</content-attribute> ~621
  </obj-head>
  <obj-body begin-place="1000" end-place="1064"/> ~622
</obj-data>
<obj-data> ~623
  <obj-head> ~624
    <len> 64</len> ~625
    <seq> 1</seq> ~626
    <time> 0</time> ~627
    <dur> 32</dur> ~628
    <obj-id> 1</obj-id> ~629
    <command> create</create> ~630
    <bitrate> 128000</bitrate> ~631
    <encodetype> ISO/IEC 14496-3</encodetype> ~632
    <mediatype> audio</mediatype> ~633
  </obj-head>
  <obj-body begin-place="1016" end-place="1080"/> ~634
</obj-data>
  ⋮
</multimedia-data>
</STORAGE STORED DATA>

```

Applicant: Masashi Yano, *et al.*

Title: Storage System

Atty Docket No. 16869N-045500

Sheet 6 of 8

6 / 8

**FIG. 7**

```

<?xml version="1.0" encoding="Shift_JIS"?>
<xsl:stylesheet xmlns:xsl="http://www.w3.org/TR/WD-xsl"> ~701

<xsl:template match="STORAGE STORED DATA"> ~702
  <xsl:for-each select="/">
    <xsl:if test="./obj-data/obj-head/bitrate $ge$ 512000"> ~703
      <storageselect>
        <phynumber> 1 </phynumber> ~704
        <filename>
          <xsl:value-of select="/file-head/filename/"> ~705
        </filename>
        <begin-place>
          <xsl:value-of select="/obj-data/obj-body[@begin-place]/> ~706
        </begin-place>
        <end-place>
          <xsl:value-of select="/obj-data/obj-body[@end-place]/> ~707
        </end-place>
      </storageselect>
    </xsl:if>
  </xsl:for-each>
</xsl:template>

```

FIG. 8

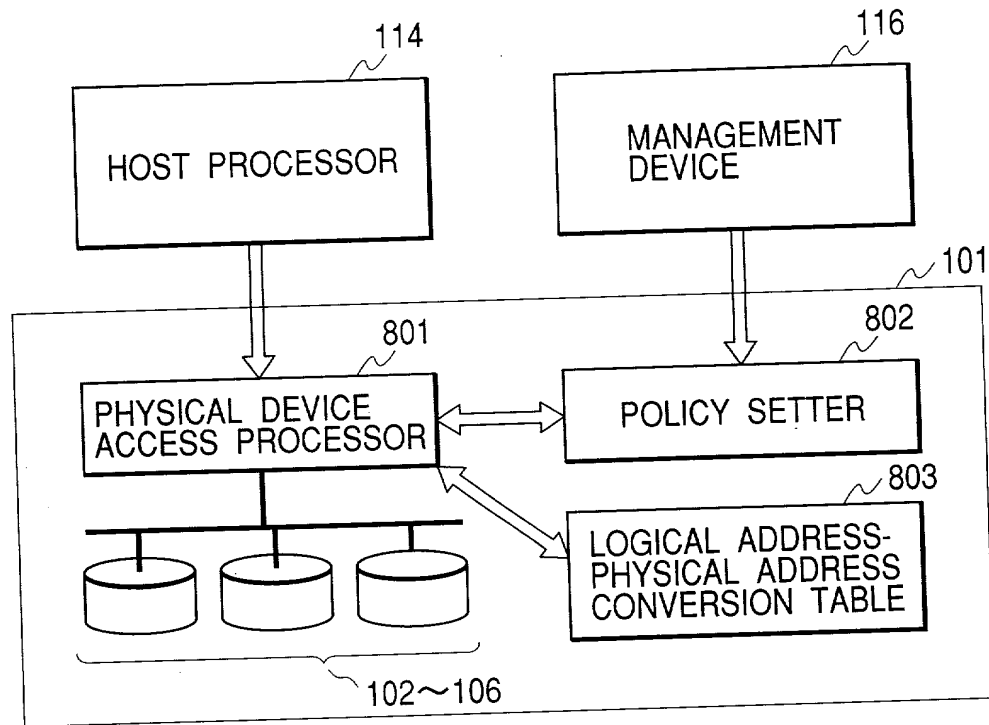


FIG. 9

LOGICAL ADDRESS	PHYSICAL ADDRESS	
	STORAGE PHYSICAL DEVICE NUMBER	PHYSICAL ADDRESS
⋮	⋮	⋮

Applicant: Masashi Yano, et al.

Title: Storage System

Atty Docket No. 16869N-045500

Sheet 8 of 8

8 / 8

FIG. 10

